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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/797,147 03/10/2004 Gary Peter Moscaluk CYP-0403 4329 EXAMINER 25007 7590 07/21/2005 LAW OFFICE OF DALE B. HALLING, LLC 655 SOUTHPOINTE COURT, SUITE 100 COLORADO SPRINGS, CO 80906 NGUYEN, HIEP ART UNIT PAPER NUMBER 2816

DATE MAILED: 07/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

					- Jon
		Application	No.	Applicant(s)	- V
Office Action Summary		10/797,147		MOSCALUK ET AL.	
		Examiner		Art Unit	
		Hiep Nguye	n	2816	,
7 Period for R	he MAILING DATE of this communication app Reply	pears on the	cover sheet with the c	correspondence addre	ss
THE MA - Extensior after SIX - If the peri - If NO peri - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLILING DATE OF THIS COMMUNICATION. Is of time may be available under the provisions of 37 CFR 1.1 (6) MONTHS from the mailing date of this communication. Od for reply specified above is less than thirty (30) days, a replication of the reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute received by the Office later than three months after the mailing attent term adjustment. See 37 CFR 1.704(b).	136(a). In no even ly within the statute will apply and will e, cause the applic	t, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	nely filed s will be considered timely, the mailing date of this commi	unication.
Status					
1)⊠ Re	esponsive to communication(s) filed on 13 M	May 2005			
•	his action is FINAL . 2b)□ This action is non-final.				
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•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition	of Claims				
4a) 5)⊡ Cla 6)⊠ Cla	aim(s) <u>1-20</u> is/are pending in the application Of the above claim(s) is/are withdra aim(s) is/are allowed. aim(s) <u>1-4 and 7-18</u> is/are rejected. aim(s) <u>5,6,19 and 20</u> is/are objected to.		sideration.		
·	aim(s) are subject to restriction and/o	or election red	quirement.		
Application	Papers			٠	
9)□ The	e specification is objected to by the Examine	er.			
10)⊠ The drawing(s) filed on <u>28 July 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Ар	plicant may not request that any objection to the	drawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).	
	placement drawing sheet(s) including the correct e oath or declaration is objected to by the Ex	•		•	• •
	er 35 U.S.C. § 119				
12)□ Acl a)□ / 1.[2.[3.[knowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Copies of the certified copies of the priority document application from the International Burea the attached detailed Office action for a list	ts have been ts have been prity documer ou (PCT Rule	received. received in Applicati its have been receive 17.2(a)).	ion No ed in this National Sta	ge
2)	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) On Disclosure Statement(s) (PTO-1449 or PTO/SB/08)) .			2)
raper No	(s)/Mail Date	•	6)		

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DETAILED ACTION

The amendment filed on 05-18-05 has been received and entered in the case. New ground of rejections necessitated by the amendment is set forth below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 7-10, 12-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Fukushi et al. (USP. 6,836,426).

Regarding claim 1, figure 8 of Fukushi shows a signal transmission amplifier circuit, comprising:

a transmission gate (N7, P7) having an input coupled to an input signal;

a cross-coupled latch (P4, P5, N4, N5) coupled to an output of the transmission gate and having a signal output: and

a reference generating circuit (2, 3, 4, 5 and 7) coupled to the cross coupled latch through a second transmission gate (N6, P6).

Regarding claims 2 and 3, the circuit of claim 1, further including a strobe signal (BLX) coupled to the transmission gate and to the cross coupled latch.

Regarding claim 4, the Schmitt trigger is element (7) or (8).

Regarding claim 7, signal (BLX) is a single ended input.

Regarding claim 8, the input of the transmission gate is coupled to a transmission line.

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Regarding claim 9, figure 8 of Fukushi shows a signal transmission amplifier circuit, comprising:

a transmission gate (N6, P6) having an input; and

a latch (P4, P5, N4, N5) coupled to an output of the transmission gate having a reference input; and

a second transmission gate (N7, P7) coupled to the reference input.

Regarding claim 9, the latch is a cross coupled latch.

Regarding claim 10, wherein the transmission gate (N6, P6) is coupled to a strobe signal and an inverted strobe signal.

Regarding claims 12-14, when the input signal has a voltage that is less than the threshold voltage of the PMOS transistor (P5) included in the latch (P4, P5, N4, N5), the PMOS transistor is turned on and the input signal is latched. The cross-coupled latch is coupled to a strobe signal (BLX).

Regarding claims 15, 16 and 18, figure 8 of Fukushi shows a signal transmission amplifier circuit, comprising:

a cross coupled latch (P4, P5, N4, N5); and

a reference generating circuit (2, 3, 4, 5 and 7) coupled to the cross coupled latch through a transmission gate (N6, P6). The strobe input signal is the drain of transistor (P4).

Regarding claim 17, the transmission gate is (N7, P7).

Claims 1-3, 7-13 and 15-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Eitrheim et al. al. (USP. 5,359,232).

Regarding claim 1, figure 2 of Eitrheim shows a signal transmission amplifier circuit, comprising:

a transmission gate (24) having an input coupled to an input signal;

a cross-coupled latch (28) coupled to an output of the transmission gate and having a signal output: and

a reference generating circuit (19, 20) coupled to the cross coupled latch through a second transmission gate (26).

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Regarding claims 2 and 3, the strobe signal is signal (CLKIN) coupled to the transmission gate (24) and to the cross-coupled latch.

Regarding claim 7, input signal (output of 22) is a single ended input.

Regarding claim 8, the input of the transmission gate is coupled to a transmission line.

Regarding claim 9, figure 2 of Eitrheim shows a signal transmission amplifier circuit, comprising:

a transmission gate (24); a latch (28); a second transmission gate (26).

Regarding claims 10 and 11, wherein the transmission gate (24) is coupled to a strobe signal (CLKIN) and an inverted strobe signal.

Regarding claims 12 and 13, when the input signal has a voltage that is less than the threshold voltage of the PMOS transistor inherently included in the latch (28), the PMOS transistor is turned on and the input signal is latched. The cross-coupled latch is coupled to a strobe signal (CLKIN).

Regarding claims 15 and 16, figure 2 of Eitrheim shows a signal transmission amplifier comprising:

a cross coupled latch (28); and

a reference generating circuit (19, 20) coupled to the cross coupled latch through a transmission gate (26). The strobe input signal is signal (CLKIN).

Regarding claim 17, the transmission gate is circuit (24).

Regarding claim 18, the transmission gate is circuit (26).

Allowable Subject Matter

Claims 5,6, 19 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 5,6, 19 and 20 are objected to because the prior art of records (USP. 6,836,426; 5,359,232) fail to teach or suggest a signal transmission amplifier circuit comprising a reference generating circuit including a latch as called for in claims 5 and 19.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references are cited as of interest because it shows some common-mode detection circuit analogous to the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hiep Nguyen whose telephone number is (571) 272-1752. The examiner can normally be reached on Monday to Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hiep Nguyen

07-19-05

MY-TRANG NUTON PRIMARY EXAMINER